

Title (en)

Axial sealing device for a scroll type fluid displacement apparatus.

Title (de)

Axialdichtung für eine Verdrängungsmaschine der Spiralbauart.

Title (fr)

Dispositif d'étanchéité axiale pour un appareil à volutes de déplacement de fluide.

Publication

EP 0122722 A1 19841024 (EN)

Application

EP 84301778 A 19840315

Priority

JP 3634583 U 19830315

Abstract (en)

A scroll type fluid displacement apparatus is disclosed having a pair of scroll members (25, 26) each comprising an end plate (251, 261) and a spiral wrap (252, 262) extending from one side of the end plate (251, 261). The spiral wraps interfit at an angular and radial offset to make a plurality of line contacts to define at least one pair of sealed off fluid pockets. At least one of the scroll members has a discharge port or fluid hole (258) at position near the center of the spiral element (25) and is provided with an anti-wear plate at its end surface facing the other scroll member. The anti-wear plate (40) is an involute plate that covers those areas of the end surface of the end plate (251) where the spiral wrap (262) of the other scroll member (26) makes contact during the orbital motion of the orbiting scroll member (26). The center portion of the anti-wear plate (40) which is closely placed on the fluid hole (258) has a cut out portion to avoid the contact with or cover up the fluid hole thereby. Therefore, the repeatedly movement of center portion of anti-wear plate by passing fluid flowed through the hole is avoided.

IPC 1-7

F04C 18/02; **F04C 29/00**

IPC 8 full level

F04C 18/02 (2006.01); **C22C 38/00** (2006.01); **C22C 38/58** (2006.01); **F01C 1/02** (2006.01); **F01L 3/02** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP US)

F01C 1/0246 (2013.01 - EP US); **F04C 2240/801** (2013.01 - EP US); **F04C 2250/102** (2013.01 - EP US); **F05B 2250/502** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0122722 A1 19841024; **EP 0122722 B1 19880316**; AU 2558184 A 19840920; AU 567922 B2 19871210; CA 1229520 A 19871124; DE 3469940 D1 19880421; JP S59142484 U 19840922; US 4540355 A 19850910

DOCDB simple family (application)

EP 84301778 A 19840315; AU 2558184 A 19840314; CA 449583 A 19840314; DE 3469940 T 19840315; JP 3634583 U 19830315; US 58840184 A 19840312